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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/791,659	03/02/2004	Jason William Muller	FL/142	2699	
28596	7590 04/06/2006		EXAM	EXAMINER	
GORE ENTERPRISE HOLDINGS, INC.			PHAM, MINI	PHAM, MINH CHAU THI	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/791,659	MULLER ET AL.		
		Examiner	Art Unit		
		Minh-Chau T. Pham	1724		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Poeriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a) <u></u> 	Responsive to communication(s) filed on 10 Fe This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro			
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-57 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-57 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	on Papers				
10)[	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Example 1.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment	• •				
2)  Notice Notice Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 1/12/06.	4) Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

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## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-17, 19, 21-36, 38-51 and 53-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riedy et al (5,108,474), in view of Schultheiss et al (2003/0000389 A1).

Riedy et al discloses a composite filter material for removal of particles from a fluid stream (col. 1, lines 5-14) comprising a membrane filtration layer comprising a porous polymeric membrane (13, col. 5, lines 13-57), at least one depth filtration media layer comprising fibers (11, col. 3, line 45 through col. 4, line 5) disposed on the upstream side of the membrane filtration member (13) wherein the membrane filtration layer comprising ePTFE (col. 5, lines 48-50). The composite filter media further comprising a support layer disposed on the downstream side of the membrane filtration layer (col. 5, lines 58-61) wherein the support layer is laminated to the membrane filtration layer (col. 6, lines 26-34). Riedy et al also disclose the membrane filtration layer and the depth filtration media layers can be pleated (see col. 10, lines 46-67-). Riedy et al further disclose a composite filter comprising a frame (41), a composite filter media (11-13) wherein the composite filter material is sealed in the frame with a potting material wherein the potting material is selected from the group of silicone. polyurethane, plastisol or the like (col. 6, lines 26-34). Riedy et al also disclose various air permeability ratings via tests of the composite filter material (see the whole document). Claims 1-17, 19, 21-36, 38-51 and 53-56 differ from the disclosure of Riedy Art Unit: 1724

et al in that the claims call for the depth filtration media comprising fibers having an electrostatic charge. Schultheiss et al disclose a multi-layered air filter wherein the filter media comprising electrostatic charge (page 1, paragraph 0014 and 0015). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide a filter layer with electrostatic charge as taught by Schultheiss et al in the filter apparatus of Riedy et al since it is very well-known in the art that electrostatic charge is put ahead of the filter layers for simultaneous increase of the suction efficiency stability and the separation performance (see page 1, paragraph 0014).

Claims 7-49 and 53 call for one additional depth filtration media layer. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide one or more layers of depth filtration media since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. <u>St. Regis Paper Co. v. Bemis Co.</u>, 193 USPQ 8.

Claims 18, 20, 37, 52 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over in view of Riedy et al (5,108,474), in view of Schultheiss et al (2003/0000389 A1), as applied supra, and further in view of Frey (5,522,908).

Claims 18, 20, 37, 52 and 57 call for the filtration media comprising a pattern of perforations wherein the media layer is removable by tearing at the perforations. Frey discloses the filtration media (10, 38, 44) comprising a pattern of perforations (60, 62, 64) wherein the media layer is removable by tearing at the perforations (col. 5, lines 58-64). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide perforations for tearing as taught by Frey in the filter

apparatus of Riedy et al and Schultheiss et al since the perforations would provide easy access for removing the filtration media off the filter frame.

## Response to Amendment

Applicant's arguments filed on February 10, 2006 have been fully considered but they are not persuasive.

Applicant argues that none of the cited references discloses "a filter assembly with a membrane filter layer and at least one depth filtration media layer disposed on the upstream side of the membrane filtration layer". The Examiner now drops George et al and newly introduces Riedy et al as the primary reference in combination with Schutlheiss et al as the secondary reference to show: Riedy et al discloses a composite filter material for removal of particles from a fluid stream (col. 1, lines 5-14) comprising a membrane filtration layer comprising a porous polymeric membrane (13. col. 5, lines 13-57), at least one depth filtration media layer comprising fibers (11, col. 3, line 45 through col. 4, line 5) disposed on the upstream side of the membrane filtration member (13) wherein the membrane filtration layer comprising ePTFE (col. 5, lines 48-50). The composite filter media further comprising a support layer disposed on the downstream side of the membrane filtration layer (col. 5, lines 58-61) wherein the support layer is laminated to the membrane filtration layer (col. 6, lines 26-34). Riedy et al also disclose the membrane filtration layer and the depth filtration media layers can be pleated (see col. 10, lines 46-67-). Riedy et al further disclose a composite filter comprising a frame (41), a composite filter media (11-13) wherein the composite filter material is sealed in the frame with a potting material wherein the potting material is

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selected from the group of silicone, polyurethane, plastisol or the like (col. 6, lines 26-34). Riedy et al also disclose various air permeability ratings via tests of the composite filter material (see the whole document), as claimed. Claims 1-17, 19, 21-36, 38-51 and 53-56 differ from the disclosure of Riedy et al in that the claims call for the depth filtration media comprising fibers having an electrostatic charge. Schultheiss et al. disclose a multi-layered air filter wherein the filter media comprising electrostatic charge (page 1, paragraph 0014 and 0015), as claimed. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide a filter layer with electrostatic charge as taught by Schultheiss et al in the filter apparatus of Riedy et al since it is very well-known in the art that electrostatic charge is put ahead of the filter layers for simultaneous increase of the suction efficiency stability and the separation performance (see page 1, paragraph 0014).

Applicant's arguments with respect to claims 1-57 have been thoroughly considered but are moot in view of the new ground(s) of rejection, as discussed above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am -5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Minh-Chau Pham Patent Examiner

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